

Title (en)

Microwave and millimeterwave radar sensors

Title (de)

Mikrowellen- und Millimeterwellenradarsensoren

Title (fr)

Capteurs de radar à micro-ondes et à onde millimétriques

Publication

EP 2180336 A2 20100428 (EN)

Application

EP 09173346 A 20091016

Priority

US 25639208 A 20081022

Abstract (en)

A radar sensor system and method for vehicles. An example radar system includes a processor (22), a plurality of transceivers having antenna(c) (24). The antenna of the transceivers are located at various points around the vehicle. The transceivers include receive and transmit electronics that are in signal communication with the corresponding antenna. The transmit electronics output radar signals via the antenna. The transmit electronics include a voltage controlled oscillator (VCO), a dielectric resonator oscillator (DRO), a phase locked loop (PLL) component and a direct digital synthesizer (DDS). The receive electronics receive from the antenna any radar reflections corresponding to the outputted radar signals and send signals associated with the radar reflections to the processor. The processor generates output signals based on the signals received from the plurality of transceivers.

IPC 8 full level

G01S 13/34 (2006.01); **G01S 13/931** (2020.01); **G01S 7/02** (2006.01); **G01S 7/35** (2006.01); **G01S 13/87** (2006.01)

CPC (source: EP US)

G01S 7/023 (2013.01 - EP US); **G01S 7/0232** (2021.05 - EP US); **G01S 7/0236** (2021.05 - EP US); **G01S 7/35** (2013.01 - EP US); **G01S 13/343** (2013.01 - EP US); **G01S 13/87** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP US); **G01S 2013/9321** (2013.01 - EP US)

Citation (applicant)

US 7324039 B2 20080129 - BOLTOVETS NIKOLAI S [UA], et al

Cited by

DE102018128804A1; CN110068812A; EP2629115A1; EP4249938A3; FR2995088A1; CN111656211A; WO2014072107A1; WO2012113366A1; US9952320B2; US9575175B2; US10830873B2; US11181616B2; US11747465B2; WO2019145066A1

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EP 2180336 A2 20100428; **EP 2180336 A3 20120815**; **EP 2180336 B1 20150401**; JP 2010101890 A 20100506; JP 5789081 B2 20151007; US 2010097263 A1 20100422; US 7737880 B2 20100615

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